

AMENDMENTS TO THE CLAIMS:

Claim 1. (Previously presented) A mobile wireless communication system comprising:
an information server;

a portable terminal for carrying out a communication with the information server through a wireless communication line and comprising a buffer memory which stores information transmitted from the information server;

a plurality of wireless communication gateway servers, wherein a first of the plurality of wireless communication gateway servers is determined based on a position of the portable terminal, and comprises a buffer memory emulator which stores specification data representing a specification of the buffer memory and transmits the information from the information server to the portable terminal based on the specification data;

a switching apparatus for setting a connection between the portable terminal and said first wireless communication gateway server and for setting another connection between the portable terminal and a second wireless communication gateway server when the communication between the portable terminal and the first wireless communication gateway server congests; and

a wireless telephony server for informing the position of the portable terminal to the plurality of wireless communication gateway servers.

Claim 2. (Previously presented) The mobile wireless communication system of claim 1, wherein the first wireless communication gateway server requests the switching apparatus to change a connection from the one connection to said another connection based on the informed

position.

Claim 3. (Previously presented) The mobile wireless communication system of claim 1, wherein the first wireless communication gateway server decides which of said plurality of wireless communication gateway servers comprises said second wireless communication gateway server.

Claim 4. (Previously presented) The mobile wireless communication system of claim 1, wherein the first wireless communication gateway server provides to said second wireless communication gateway server the specification data which is read from the buffer memory emulator, and

wherein said second wireless communication gateway server comprises a buffer memory emulator which stores the read specification data and wherein said second wireless communication gateway server transfers the information from the information server to the portable terminal based on the read specification data.

Claim 5. (Previously presented) The mobile wireless communication system of claim 1, further comprising:

a network connected to the first wireless communication gateway server, the second wireless communication gateway server, the switching apparatus and the wireless telephony server,

wherein the first wireless communication gateway server, the second wireless communication gateway server, the switching apparatus and the wireless telephony server are capable of communicating through the network.

Claim 6. (Previously presented) The mobile wireless communication system of claim 1, wherein the first wireless communication gateway server, the second wireless communication gateway server, the switching apparatus and the wireless telephony server are capable of communicating through the Internet.

Claim 7. (Previously presented) The mobile wireless communication system of claim 1 comprising:

a satellite network connected to the first wireless communication gateway server, the second wireless communication gateway server, the switching apparatus and the wireless telephony server,

wherein the first wireless communication gateway server, the second wireless communication gateway server, the switching apparatus and the wireless telephony server are capable of communicating through the satellite network.

Claim 8. (Previously presented) A mobile wireless communication system comprising:
an information server;

a portable terminal for carrying out a communication with the information server and comprising a buffer memory which stores the information transmitted from the information server;

a wireless communication gateway server comprising a buffer memory emulator which stores specification data which represents a specification of the buffer memory and a plurality of access points, a specific one of said plurality of access points being determined based on a position of the portable terminal, and for transferring the information from the information server to the portable terminal based on the specification data;

a switching apparatus for setting one connection between the portable terminal and a first of said plurality of access points and for setting another connection between the portable terminal and a second of said plurality of access points when the first access point congests; and

a wireless telephony server for informing the position of the portable terminal to the wireless communication gateway server.

Claim 9. (Previously presented) The mobile wireless communication system of claim 8, wherein the wireless communication gateway server requests the switching apparatus to change a connection from the one connection to the another connection based on the informed position.

Claim 10. (Previously presented) The mobile wireless communication system of claim 8, wherein the wireless communication gateway server refers to the specification data in the buffer memory emulator to access the portable terminal through the second access point.

Claim 11. (Previously presented) The mobile wireless communication system of claim 8 further comprising:

a network connected to the wireless communication gateway server, the switching apparatus and the wireless telephony server,

wherein the wireless communication gateway server, the switching apparatus and the wireless telephony server are capable of communicating through the network.

Claim 12. (Previously presented) The mobile wireless communication system of claim 8,

wherein the wireless communication gateway server, the switching apparatus and the wireless telephony server are capable of communicating through the Internet.

Claim 13. (Previously presented) The mobile wireless communication system of claim 8 further comprising:

a satellite network connected to the wireless communication gateway server, the switching apparatus and the wireless telephony server,

wherein the wireless communication gateway server, the switching apparatus and the wireless telephony server are capable of communicating through the satellite network.

Claim 14. (Previously presented) A method for operating a mobile wireless communication system comprising:

storing specification data which represents a specification of a buffer memory of a portable terminal in a buffer memory emulator of a first wireless communication gateway server when the portable terminal is connected to said first wireless communication gateway server;

changing from one connection between the portable terminal and said first wireless communication gateway server to another connection between the portable terminal and a second wireless communication gateway server when said first wireless communication gateway server has congestion; and

transferring the specification data from said first wireless communication gateway server to said second wireless communication gateway server.

Claim 15. (Previously presented) The method for operating a mobile wireless communication system of claim 14, further comprising:

informing a position of the portable terminal from a wireless telephony server to said first wireless communication gateway server; and

sending a request to change from said one connection to said another connection to a switching apparatus which sets a connection for the portable terminal based on the informed position.

Claim 16. (Previously presented) The method for operating a mobile wireless communication system of claim 14, wherein communication between said first wireless

communication gateway server, said second wireless communication gateway server, the switching apparatus and the wireless telephony server is through a network.

Claim 17. (Previously presented) The method for operating a mobile wireless communication system of claim 14, wherein communication between said first wireless communication gateway server, said second wireless communication gateway server, the switching apparatus and the wireless telephony server is through the Internet.

Claim 18. (Previously presented) The method for operating a mobile wireless communication system of claim 14, wherein communication between said first wireless communication gateway server, said second wireless communication gateway server, the switching apparatus and the wireless telephony server is through a satellite network.

Claim 19. (Previously presented) A method of operating a mobile wireless communication system comprising:

changing from one connection between a portable terminal and one access point of a wireless communication gateway server to another connection between the portable terminal and another access point of the wireless communication gateway server when the wireless communication gateway server has congestion, wherein said wireless communication gateway server converts a protocol between the portable terminal and an information server on a network.

Claim 20. (Previously presented) The method of operating a mobile wireless communication system of claim 19, further comprising:

informing a position of the portable terminal from a wireless telephony server to the wireless communication gateway server; and

sending a request to change from said one connection to the other connection to a switching apparatus which sets a connection for the portable terminal based on the informed position.

Claim 21. (Previously presented) The method of operating a mobile wireless communication system of claim 19, wherein the wireless communication gateway server, the switching apparatus and the wireless telephony server communicate through a network.

Claim 22. (Previously presented) The method of operating a mobile wireless communication system of claim 19, wherein the wireless communication gateway server, the switching apparatus and the wireless telephony server communicate through the Internet.

Claim 23. (Previously presented) The method of operating a mobile wireless communication system of claim 19, wherein the wireless communication gateway server, the switching apparatus and the wireless telephony server communicate through a satellite network.

Claim 24. (Withdrawn) A wireless communication gateway server apparatus comprising:

a buffer memory emulator for storing specification data which represents a specification of a buffer memory of a portable terminal,

wherein said apparatus transfers the specification data in the buffer memory to another wireless communication gateway server when a connection with a portable terminal is congested and when another connection between said portable terminal and said another wireless communication gateway server is established.

Claim 25. (Withdrawn) The wireless communication gateway server of claim 24, wherein said wireless communication gateway server sends a request to a switching apparatus to change the connection with the portable terminal to the another connection based on a position data of the portable terminal.

Claim 26. (Withdrawn) The wireless communication gateway server of claim 24 further comprising:

a plurality of access points, wherein one of the plurality of access points is determined based on an informed position of the portable terminal,

wherein said wireless communication gateway server sends a request to a switching apparatus to change the connection with the portable terminal of said one access point to another connection of another access point based on the position of the portable terminal.

Claim 27. (Previously presented) The mobile wireless communication system of claim 1, wherein the first wireless communication gateway server provides to said second wireless communication gateway server the specification data which is read from the buffer memory emulator.

Claim 28. (Previously presented) The mobile wireless communication system of claim 1, wherein said second wireless communication gateway server comprises a buffer memory emulator which stores the read specification data.

Claim 29. (Previously presented) The mobile wireless communication system of claim 1, wherein said second wireless communication gateway transfers the information from the information server to the portable terminal based on the read specification data.

Claim 30. (New) The system of claim 1, wherein at least one of the plurality of wireless communication gateway servers converts between a wireless communication protocol with the portable terminal and a network protocol with the information server.

Claim 31. (New) The system of claim 1, wherein the buffer memory emulator comprises a specification regarding the size of the buffer memory.

Claim 32. (New) The system of claim 1, wherein the buffer memory emulator comprises a specification regarding an amount of available memory in the buffer memory.

Claim 33. (New) The system of claim 1, further comprising a position register that registers a position of the portable terminal, wherein the wireless telephony server informs the position to the plurality of wireless communication gateway servers based upon the position registered in the position register.

Claim 34. (New) The system of claim 33, wherein the switching apparatus registers the position of the portable terminal in the position register.